

ABSTRACT OF THE DISCLOSURE

An axle suspension for rigid axles of vehicles, especially air-suspension (e.g., with air shock absorbers/ air springs) utility vehicles, is presented, in which a twistable four-point connecting rod (4), which is connected in an articulated manner to the vehicle axle (3), on the one hand, and to the vehicle body (1a, 1b), on the other hand, and which is connected to the vehicle axle (3) and to the vehicle body (1a, 1b) by four said joints (5, 6, 7, 8) each located at spaced locations from one another in the transverse direction of the vehicle. The four-point connecting rod is arranged above the vehicle axle (3). At least one axle strut (11, 12), which extends in the longitudinal direction of the vehicle and connects the vehicle axle (3) to the vehicle body (1a, 1b) in a vertically movable manner, is arranged on each side of the vehicle for guiding the axle. At least one air spring assembly unit (19, 20) is arranged between the vehicle axle (3) and the vehicle body (1a, 1b) for spring suspension. The axle struts 11, 12 are each connected to the vehicle axle (3) by a molecular joint (15, 16). The articulated mounting of the vehicle axle leads to a markedly more favorable elasticity for the entire system of the axle suspension and to an unambiguous assignment of the kinematic conditions under all driving conditions, so that an inward and outward deflection of the axle as well as the pendular behavior are not adversely affected by squeezing or jamming of the vehicle axle.